

Stormwater 101 and 201 Presentation Schedule

September 11, 2008

Stormwater 101 4:00-5:00 pm

Enviroscape Demonstration Laura Webb Smith 20 minutes

Water Quality Programs Paul Wiebke 15 minutes

- Assessment and Monitoring
 - Physical, Chemical, Biological and Flow
- Outfall pollution screening
- Illicit Discharge Detection and Elimination
 - Respond to citizen concerns, investigate concerns identified by stream monitoring, map potential sources of pollution, enforce stormwater pollution ordinance
- Construction Site Runoff Controls (Erosion Control)
- Pollution Prevention and Good Housekeeping for Municipal Operations
 - Technical assistance to six city facilities have NPDES stormwater permits
 - Assistance to other city facilities in developing stormwater pollution prevent plans
 - Education of City employees
- Industrial inspections
- Development of Water Quality Recovery Plans
 - Third Fork Creek – turbidity
 - Northeast Creek – fecal coliforms
 - Future – Jordan Lake & Falls Lake
- Annual reporting/Program Assessment
 - Compile data from multiple City departments

Infrastructure Programs Paul Wiebke 10 minutes

- Drainage Projects (private property drainage assistance, w/in ROW, and City owned property)
- Drainage Investigations (private property, assistance to City Departments/Division –Street Maintenance, Engineering, General Services, Housing, etc.)
- Floodplain Management (community map repository, what is NFIP, FEMA Flood Insurance Rate Map, floodplain regulations)
- Flood Warning System
- Pollution Prevention Ordinance

Development Requirements

Paul Wiebke

10 minutes

- Peak Flow Control Standards
- Water Quality Requirement
- Stream Buffers
- Upcoming rules

Watershed Planning/Watershed Restoration

Paul Wiebke

5 minutes

- Ellerbe Creek Watershed – completion summer 2009
- Third Fork Creek Watershed – contract negotiation
- Lick Creek, Little Lick Creek
- Sandy Creek
- Northeast Creek
- Stirrup Iron Creek

Stormwater 201

5:30-8:30pm

Infrastructure

Christy Sokol

30 minutes

- Stormwater Drainage Systems
 - Drainage Investigations
 - Technical Support and Advice
 - Ordinance Compliance
 - Coordination with Other Departments and Agencies
 - Community Outreach (ComNET, CENET, Keep Durham Beautiful)
 - Drainage Projects
 - Drainage Analysis & Design
 - Project Management
 - Construction Management
- Floodplain Management
 - NFIP Technical Support
 - FEMA Flood Insurance Rate Maps (FIRMs)
 - FIRM Updates and Revisions (Map Mod, LOMC)
 - Floodplain Development
 - Flood Study Reviews
 - Flood Warning
- Special Projects
 - Update of Standard Bid and Construction Documents
 - Ordinance Review/Update

Public Education and Involvement

Laura Webb Smith

20 minutes

- Why public education? Cite statistics from NC Stormwater Awareness Survey
- Durham's outreach programs (schools, civic groups, festivals, regional mass media campaigns, water bill inserts)
- Public involvement programs (Adopt-a-Stream, Storm Drain Labeling, Stream Clean-ups, Environmental Affairs Board)
- EnviroStars Green Business Program
- Teacher and volunteer trainings
- Stormwater Quarterly Seminars for Engineering/Development Community

Water Quality & NPDES

John Cox, Michelle Woolfolk

40 minutes

- Assessment and Monitoring
 - Physical, Chemical, Biological and Flow
- Outfall inspection and pollution screening
- Illicit Discharge Detection and Elimination
 - Complaint Response
 - Response to stream monitoring
 - Mapping of sources (e.g. locations where sanitary sewer crosses above stormwater piping)
 - Enforcement
 - Permitting
- Construction Site Runoff Controls (Erosion Control)
- Pollution Prevention and Good Housekeeping for Municipal Operations
 - Technical assistance and inspection of City facilities with NPDES industrial stormwater permits
 - Technical assistance on stormwater pollution prevention plans for other significant facilities
 - Education of City staff
 - Street sweeping
 - Household hazardous waste collection
- Industrial inspections
 - Facilities reporting releases to the environment (TRI)
 - Private facilities with NPDES industrial stormwater permits
 - Identification of facilities requiring permits
 - Facilities identified in illicit discharge program
- Water Quality Recovery Programs
 - Annual reporting/Program Assessment

Break

10 minutes

Watershed Planning

Sandra Wilbur

15 minutes

- Ellerbe Creek Watershed – completion summer 2009

- Third Fork Creek Watershed – contract negotiation
- Sandy Creek
- Northeast Creek
- Stirrup Iron Creek
- Lick Creek, Little Lick Creek
- Other creeks

Stormwater Development Standards Dave Brown, Sandra Wilbur 40 minutes

- Peak Flow Control Standards
 - City Ordinance, Neuse, Floodplain – No rise
- Water Quality Requirements
 - Water Supply, Neuse, Phase II
 - Future (Jordan/Falls Lake)
 - TMDL's
- Stream Buffer Standards
 - City, Water Supply, Neuse, Cape Fear
- NPDES Phase II Rules
- As-built Standards/BMP Certifying Engineer Program
- BMP Inspection/Maintenance (BMP Maintenance Certification)
- Agreement and Covenants
- Proposed stormwater development standards

Stormwater Billing and Budget Edward Cherry/Paul Wiebke 15 minutes

- Stormwater fees
- What we collect and where it goes

Discussion